SAMSUNG

5 Disc DVD Changer
DVD-C637

SAMSUNG ELECTRONICS

AU

AK68-00148D

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Precautions

1. Setting up

Ensure that the mains supply in your house complies with that indicated on the identification sticker located at the back of your play. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (7~10cm). Make sure the ventilation slots are not covered. Do not stack other, or heavy devices on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player ensure the disc tray is empty. This player is designed for continuous use.
Switching off the DVD player to the stand-by mode does not disconnect the electricity supply In order to separate the player completely from the mains,it has to be disconnected by unplugging the main plug, especially when left unused for a long period of time.

2. For your safety

Never open the player or any of its components. It can be dangerous for you or certain fragile components. You could receive an electric shock or touch the laser beam. Do not place your eyes close to the opening of the disc tray or any other opening to look inside the player.

3. Caution

Protect the player from moisture (dripping or splashing and objects filled with liquids), and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...).
Disconnect the power cable from the mains electricity supply if the player malfunctions.
Your player is not intended for industrial use but for domestic purposes only. Use of this product is for personal use only. If your player or disc has been stored in a cold atmosphere for example during transportation in the winter, wait for approximately 2 hours until they have reached room temperature, before use.

4. Disc

Be careful handle your discs with care. Hold a disc with finger on the border or hole. Always place disc with the label facing upward (in case of a single side disc). Always use a soft cloth to clean disc if necessary, wipe from the centre to the border. Always put disc back into their cases after playing and store in vertical position. Always place the disc properly into the tray using the proper guide area. Never use record cleaning sprays, benzine, static electricity liquids or any other solvent, if the disc surface is dirty. Wipe gently with a soft damp (water only) cloth, never wipe the disc in a circular motion, since circular scratches are likely to occur and could cause noise during playback.

5. Environmental info

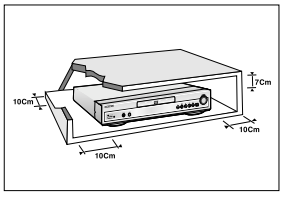
Batteries: The battery used in this product contains chemicals that are harmful to the environment. Do not dispose of batteries in the general domestic waste. It is recommended that the replacement of the battery should be done by a technician.

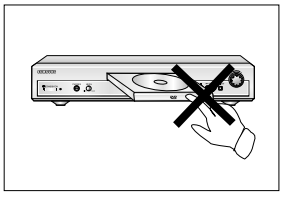
Disposal of old equipment and packaging: Old equipment and packaging should not be disposed of as domestic waste, but in accordance with the appliable regulations.

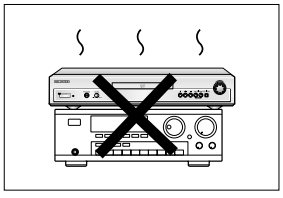
6. Maintenance of Cabinet

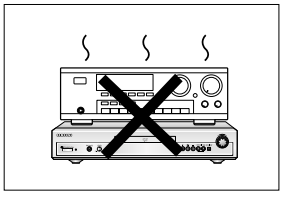
For safety reasons, be sure to disconnect the AC power cord from the AC outlet.
• Do not use benzene, thinner, or other solvents for cleaning.
• Wipe the cabinet with a soft cloth.

1









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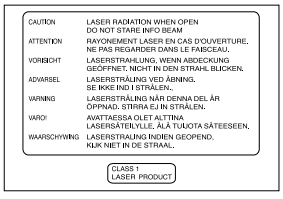
CAUTION LASER RADIATION WHEN OPEN DO NOT STARE INTO BEAM
ATTENTION RAYONEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
VORSICHT LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET, NICHT IN DEN STRAHL BLICKEN.
ADVARSEL LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.
VARNING LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN STRÅLEN.
VARO! AVATTAESSA OLET ALTTINA LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN.
WAARSCHUWING LASERSTRALING INDIEN GEOPEND. KIJK NIET IN DE STRAAL.
CLASS 1 LASER PRODUCT

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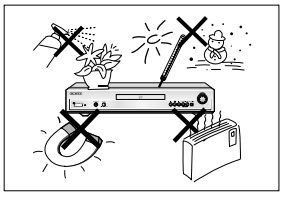

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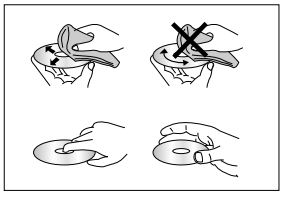

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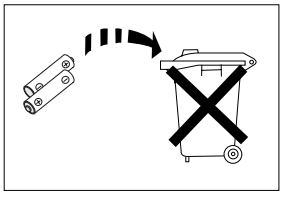

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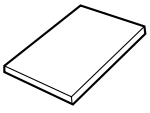
Before You Start

Accessories

Remote Control

Easy Remote Control

Batteries for Remote Control (AA Size)



User's Manual

Video/Audio Cable

Install Batteries in the Remote

1. Open the battery cover on the back of the remote.
2. Insert two AA batteries. Make sure that the polarities (+ and -) are aligned correctly.
3. Replace the battery cover.

If remote doesn't operate properly:

- Check the polarity + - of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

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General Features

DVD Changer
The DVD Changer holds 5 discs and provides full random play with fast disc changes.

Excellent Sound
Dolby Digital, a technology developed by Dolby Laboratories, provides crystal clear sound reproduction.

Screen
Both regular and widescreen(16:9) pictures can be viewed.

Slow Motion
An important scene can be viewed in slow motion.

Programmed Play
You can program tracks to play in desired order. (CD, WMA, MP3)

Parental Control
The parental control allows users to set the level necessary to prohibit children from viewing harmful movies such as those with violence, adult subject matter, etc.

Various On-Screen Menu Functions
You can select various languages (Audio/Subtitle) and screen angles while enjoying movies.

EZ VIEW
Easy View can convert Letter Box images to full screen viewing on your conventional TV.

Digital Photo Viewer (JPEG)
You can view Digital Photos on your TV.

Repeat
You can repeat a song or movie simply by pressing the REPEAT button.

MP3/WMA
This unit can play discs created from MP3/WMA files.

Instant Replay
This function is used to replay the previous 10 seconds of the movie from the current position.

Instant Skip
This function skips playback ahead 10 seconds.

Easy Remocon
You can easily operate this player by combining only the functions that are frequently used.

NOTE

* Discs which cannot be played with this player.
  - DVD-ROM
  - DVD-RAM
  - CD-ROM
  - CDV
  - CDI
  - HD layer of super Audio CD
  - CDGs play audio only, not graphics.

* Ability to play back may depend on recording conditions.
  - DVD-R, +R
  - CD-RW
  - DVD+RW, -RW

COPY PROTECTION

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**

- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

Disc Type and Characteristics

This DVD player is capable of playing the following types of discs with the corresponding logos:

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	12cm	Single-sided 240 min. Double-sided 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. • Various screen and audio functions can be easily selected through the on-screen menu.
		8cm	Single-sided 80 min. Double-sided 160 min.	
VIDEO-CD	Audio + Video	12cm	74 min.	• Video with CD sound, VHS quality & MPEG-1 compression technology.
		8cm	20 min.	
AUDIO-CD	Audio	12cm	74 min.	• CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8cm	20 min.	

Disc Markings

- Play Region Number
- PAL broadcast system in U.K, France, Germany, etc.
- Dolby Digital disc
- Stereo disc
- Digital Audio disc
- DTS disc
- MP3 disc

Play Region Number

Both the DVD player and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.

The Region Number for this player is described on the rear panel of the player.

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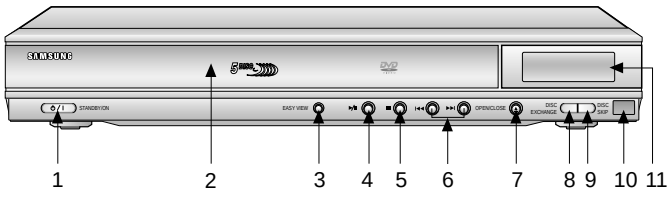
Description-Front Panel



Front Panel Controls

1. STANDBY / ON
- Use to turn your player on and off (standby).

2. DVD CHANGER (TRAY)
- Press OPEN/CLOSE to open and close the disc changer.

3. EZ VIEW
- Easy View can convert Letter Box images to full screen viewing on your conventional TV.

4. PLAY/PAUSE (▶/II)
- Begin or pause disc play.

5. STOP (■)
- Stops disc play.

6. SKIP (⏮ / ⏭) / SEARCH
- Use to skip or search a scene or music.

7. OPEN/CLOSE
- Press to open and close the disc tray.

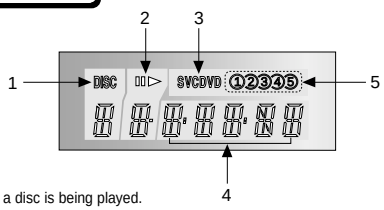
8. DISC EXCHANGE
- Press this button when you want to change a disc without stopping playback of the current disc.

9. DISC SKIP
- Use to skip a disc in order.

10. REMOCON RECEIVER

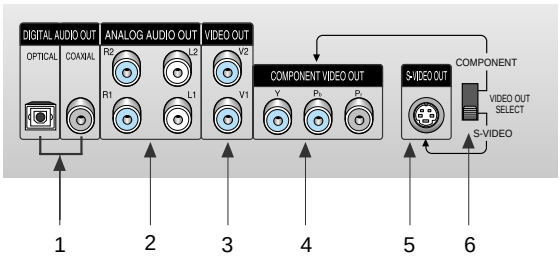
11. FRONT DISPLAY
- Operation indicators are displayed here.

Front Panel Display



1. Indicates a disc is being played.
2. Play / Pause / Forward play
3. Disc type indicator
4. Displays various messages concerning operations such as PLAY, STOP, LOAD, ...
   no DISC : No disc loaded.
   OPEN : The disc tray is open.
   LOAD : Player is loading disc information.
5. Disc indicator
   - Indicates which numbered disc is playing.

Description-Rear Panel



Rear Panel

1. DIGITAL AUDIO OUT JACKS
- Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to an A/V Amplifier that contains a Dolby Digital or DTS decoder.

2. ANALOG AUDIO OUT JACKS
- Connect to the Audio input jacks of your television, audio/video receiver.

3. VIDEO OUT JACKS
- Use a video cable to connect to the Video input jack on your television.
- The VIDEO OUT SELECT switch must be set to the S-VIDEO position.

4. COMPONENT VIDEO OUT JACKS
- Use these jacks if you have a TV with Component Video in jacks. These jacks provide Pr, Pb and Y video. Along with S-Video, Component Video provides the best picture quality.
- The COMPONENT must be selected in the VIDEO OUT SELECT.

5. S-VIDEO OUT JACK
- Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture.
- The VIDEO OUT SELECT switch must be set to the S-VIDEO position.

6. VIDEO OUT SELECT SWITCH
- Use this switch to set video out. If COMPONENT is selected, S-VIDEO may not work. If S-VIDEO is selected, COMPONENT may not work.

NOTE

- Select the VIDEO OUT SELECT switch in the Stop or Power Off mode.

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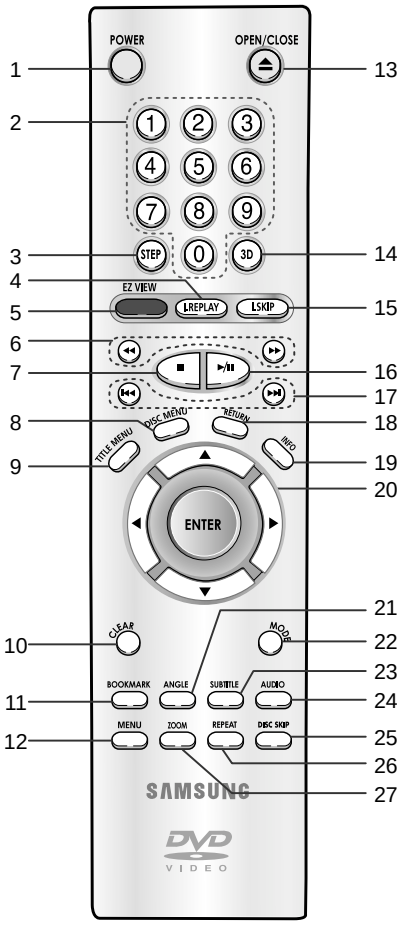

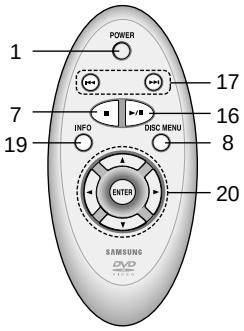

(Easy Remote Control)

DVD Function Buttons

1. DVD POWER Button
- Turns the power on or off.

2. NUMBER Buttons
- Press the number (1~5) button for 2 seconds to select the desired disc loaded in the DVD changer.

3. STEP Button
- Advances play one frame at a time.

4. I.REPLAY Button
- This function is used to replay the previous 10 seconds of the movie from the current position.

5. EZ VIEW Button
- Easy View can convert Letter Box images to full screen viewing on your conventional TV.

6. SEARCH Buttons (◀◀ / ▶▶)
- Allows you to search forward/backward through a disc.

7. STOP Button (■)

8. DISC MENU Button
- Brings up the Disc menu.

9. TITLE MENU Button
- Brings up the Title menu.

10. CLEAR Button
- Use to remove menus or status displays from the screen.

11. BOOKMARK Button

12. MENU Button
- Brings up the DVD player's setup menu.

13. OPEN/CLOSE Button
- To open and close the disc tray.

14. 3D Button

15. I.SKIP Button
- This function skips playback ahead 10 seconds.

16. PLAY/PAUSE Button (▶/II)
- Begin/Pause disc play.

17. SKIP Buttons (I◀◀ / ▶▶I)
- Use to skip the title, chapter, or track.

18. RETURN Button
- Returns to a previous menu.

19. INFO Button
- Displays the current disc mode.

20. ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT Buttons)
- This button functions as a toggle switch.

21. ANGLE Button
- Use to access various camera angles on a DVD.

22. MODE Button
- Allows you to program a specific order.

23. SUBTITLE Button

24. AUDIO Button
- Use this button to access various audio functions on a disc.

25. DISC SKIP
- Use to skip a disc in order.

26. REPEAT Button
- Allows you to repeat play a title, chapter, track, or disc.

27. ZOOM Button
- Enlarges the DVD picture.

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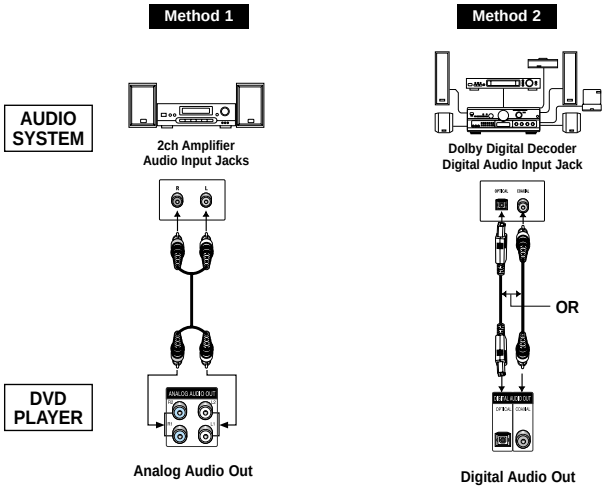
Choosing a Connection

The following show examples of connections commonly used to connect the DVD player with a TV and other components.

Before Connecting the DVD Player

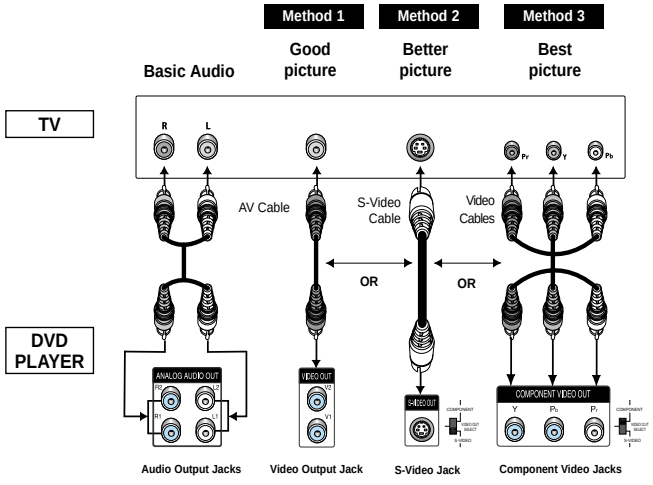
- Always turn off the DVD player, TV, and other components before you connect or disconnect any cables.
- Refer to the owner's manual of the additional components you are connecting for more information on those particular components.

Connection to an Audio System



Connection to a TV (For Video)

TV (Normal, Widescreen, Projection, etc..)



Method 1 DVD Player + TV with Video Input Jack
(The VIDEO OUT SELECT switch must be set to the S-VIDEO position.)

Method 2 DVD Player + TV with S-Video Input Jack
(The VIDEO OUT SELECT switch must be set to the S-VIDEO position.)

Method 3 DVD Player + TV with Component Video Jacks
(The VIDEO OUT SELECT switch must be set to the COMPONENT position.)

NOTE

- If COMPONENT is selected, S-VIDEO will not work.
- If S-VIDEO is selected, COMPONENT will not work.

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Before Play

- Turn on your TV and press the TV/VIDEO button to select the video mode.
- Turn on your Audio System and select AUX, CD or DVD.

After plugging in the player, the first time you press the DVD POWER button, this screen comes up :
If you want to select the language, press a NUMBER button.
(This screen will only appear the very first time you plug in the player.)

SELECT MENU LANGUAGE
Press 1 for English
Touche 2 pour Fran ais
Dr cken Sie 3 f r Deutsch
Pulsar 4 para Espa ol
Premere 5 per Italiano
Druk op 6 voor Nederlands

Play

1 Press the OPEN/CLOSE button.
The tray opens.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the PLAY/PAUSE (▶/II) button or OPEN/CLOSE button to close the disc tray.

4 Stopping Play
Press the STOP (■) button during play.

5 Removing Disc
Press the OPEN/CLOSE button.

6 Pausing Play
Press the PLAY/PAUSE (▶/II) or STEP button on the remote during play.
- Screen stops, no sound.
- To resume again, press PLAY/PAUSE (▶/II) button once again.

7 Step Motion Play (Except CD)
Press the STEP button on the remote during play.
- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press PLAY/PAUSE (▶/II) to resume normal play.
(You can only perform step motion play in the forward direction.)

8 Slow Motion Play (Except CD)
Press the ▶▶ button on the remote during PAUSE or STEP mode.
- By pressing the ▶▶ button, you can select slow motion play for 1/8, 1/4 or 1/2 of normal speed.
- No sound is heard during slow mode.
- Press PLAY/PAUSE (▶/II) to resume normal play.
- When playing a DVD/VCD, reverse slow motion play will not work.

RESUME function

When you stop disc play, the player remembers where you stopped, so when you press PLAY (▶/II) again, it will pick up where you left off. (unless the disc is removed, the STOP (■) button is pressed twice or the player is unplugged.)

NOTE

- If the player is left for 5 minutes in pause mode, it will stop.
- If the player is left in the stop mode for more than 30 minutes, the power will automatically shut off. (Automatic Power-Off Function)
- If the player is left in the stop mode for more than one minute without any user interaction, a screen saver will be activated, and the TV screen will fade in and out repeatedly. Press the PLAY (▶/II) button to resume normal play.
- This ⊘ icon indicates an invalid button press.

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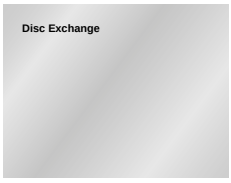
Operating the Disc Changer

The DVD Changer holds 5 discs and provides full random play with fast disc changes.

Exchanging Discs

Exchange allows you to change up to 4 discs except the disc currently playing.



1 Press the DISC EXCHANGE button on the front of the player when in the play mode. The tray opens with two slots available for you to load or change discs.

2 Press the DISC SKIP button on the remote or on the front of the player to turn the platter to the other two slots. Load or change the third and fourth discs.

- To change all the discs, first press the STOP button, then the OPEN/CLOSE and DISC SKIP buttons.

3 Press the DISC EXCHANGE, OPEN/CLOSE button on the front of the player to close the disc tray.

Using the DISC SKIP function

Use the Disc Skip function to change to another disc currently in the disc platter.

1 While in play or stop mode, press the DISC SKIP button. The platter turns clockwise to the next available disc.

Using the Search & Skip Functions

During play, you can search quickly through a chapter or track or use the skip function to jump to the next selection.

Searching through a Chapter or Track

1 During play, press the ◀◀ or ▶▶ button on the remote.

- Press the ▶▶ or ◀◀ button on the remote and press again to search at a faster speed on the DVD, VCD, CD.

DVD	2X, 4X, 8X, 16X, 32X, 128X
VCD	4X, 8X
CD	2X, 4X, 8X

Skipping Tracks

1 During play, press the ⏮ or ⏭ button.

- When playing a DVD, if you press the ⏭ button, it moves to the next chapter. If you press the ⏮ button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a CD, if you press the ⏭ button, it moves to next track. If you press the ⏮ button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.
- When playing a VCD 2.0 in MENU OFF mode, a VCD 1.1 or a CD, if you press the ⏭ button, it moves to the next track. If you press the ⏮ button, it moves to the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the ⏭ button, it moves forward 5 minutes. If you press the ⏮ button, it moves backward 5 minutes.

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Using the Display Function

When Playing a DVD/VCD/CD

1 During play, press the INFO button on the remote.

2 Use the UP/DOWN buttons to select the desired item.

3 Use the LEFT/RIGHT buttons to make the desired setup, then press ENTER.
- You may use the number buttons of the remote control to directly access a title, chapter or to start the playback from the desired time.

4 To make the screen disappear, press the INFO button again.

Title To access the desired title when there is more than one in the disc. For example, if there is more than one movie on a DVD, each movie will be identified.

Chapter Most DVD discs are recorded in chapters so that you can quickly find a specific passage (similar to tracks on an audio CD).

Time Allows playback of the film from a desired time. You must enter the starting time as a reference.

Audio Refers to the language of the film soundtrack. In the example, the soundtrack is played in English 5.1CH. A DVD disc can have up to eight different soundtracks.

Subtitle Refers to the subtitle languages available in the disc. You will be able to choose the subtitles language or, if you prefer, turn them off from the screen. A DVD disc can have up to 32 different subtitles.

3D Sound A surround sound effect is generated using only two front speakers.

NOTE

* When in VCD 2.0 mode (MENU ON mode), this function does not work.

DVD

VCD

CD

NOTE

What is a Chapter?
Each Title on a DVD is usually divided into chapters.

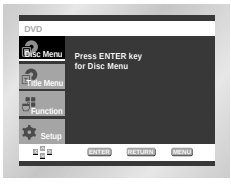
What is a Title?
A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.

Using the Disc and Title Menu

Using the Disc Menu

1 During the playback of a DVD disc, press the MENU button on the remote.

2 Select **Disc Menu** using the UP/DOWN buttons, then press the RIGHT or ENTER button.



Using the Title Menu

1 During the playback of a DVD disc, press the MENU button on the remote.

2 Select **Title Menu** using the UP/DOWN buttons, then press the RIGHT or ENTER button.

NOTE

- Depending on the disc, the Title and Disc Menus may not work.
- Title Menu will only be displayed if there are at least two titles in the disc.
- You can also use the Title Menu and the Disc Menu, using the TITLE MENU and the DISC MENU buttons on the remote.
- In VCD2.0, the DISC MENU button works as a conversion switch between Menu On and Menu Off mode.

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Using the Function Menu

Using the Function Menu

1 Press the MENU button during playback.

2 Use the UP/DOWN buttons to highlight **Function**, then press the RIGHT or ENTER button.

3 Function selection screen appears: Info, Zoom, Bookmark, Repeat and EZ View.
- Info (See Page 18)
- Zoom (See Page 30)
- Bookmark (See Page 29)
- Repeat (See Page 21)
- EZ View (See Page 22~23)

4 Use the UP/DOWN button to highlight one of the 5 functions. Then press the RIGHT or ENTER button to access the function.

NOTE

• You can also directly select these functions using their respective buttons on the remote.

Repeat Play

Repeat the current track, chapter, title, a chosen section (A-B), or all of the disc.

When playing a DVD

1 Press the REPEAT button on the remote. Repeat screen appears.

2 Select Chapter, Title or A-B using the LEFT/RIGHT buttons.

* REPEAT A-B
• Press the REPEAT button. Select A-B on screen with the LEFT/RIGHT buttons on the remote.
• Press ENTER at the point where you want the repeat play to start (A). The B is automatically highlighted.
• Press ENTER at the point where you want the repeat play to stop (B).
• To terminate the function, press the 'CLEAR' button or the 'REPEAT' button again.
• A-B REPEAT does not allow you to set point (B) until at least 5 seconds has elapsed after point (A) has been set.

3 Press ENTER.

4 To return to normal play, press REPEAT again, then press the LEFT/RIGHT buttons to select Off. Press ENTER, then press the PLAY/PAUSE button.

DVD

VCD/CD

NOTE

• DVD repeats play by chapter or title, CD repeat play by disc or track.
• Depending on the disc, the Repeat function may not work.
• When in VCD 2.0 mode (MENU ON mode), this function does not work.

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Adjusting the Aspect Ratio (EZ View)

To play back using aspect ratio (DVD)

1 Press the EZ VIEW button.
- The screen size changes when the button is pressed repeatedly.
- The screen zoom mode operates differently depending on the screen setting in the initial setup menu.
- To ensure correct operation of the EZ VIEW button, you should set the correct aspect ratio in the initial setup (See page 41).

If you are using a 16:9 TV

❶ **For 16:9 aspect ratio discs**
- **Wide Screen**
  Displays the content of the DVD title in 16:9 aspect ratio.
- **Screen Fit**
  The top and bottom of the screen are cut off. When playing a 2.35:1 aspect ratio disc, the black bars at the top and bottom of the screen will disappear. The picture will look vertically stretched. (Depending on the type of disc, the black bars may not disappear completely.)
- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

❷ **For 4:3 aspect ratio discs**
- **Normal Wide**
  Displays the content of the DVD title in 16:9 aspect ratio. The picture will look horizontally stretched.
- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.
- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.
- **Vertical Fit**
  When a 4:3 DVD is viewed on a 16:9 TV, black bars will appear at the left and right of the screen in order to prevent the picture from looking horizontally stretched.

Adjusting the Aspect Ratio (EZ View)

If you are using a 4:3 TV

❶ **For 16:9 aspect ratio discs**
- **4:3 Letter Box**
  Displays the content of the DVD title in 16:9 aspect ratio. The black bars will appear at the top and bottom of the screen.
- **4:3 Pan Scan**
  Displays the central portion of the 16:9 screen. The right and left sections of the screen are cut off.
- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.
- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

❷ **For 4:3 aspect ratio discs**
- **Normal Screen**
  Displays the content of the DVD title in 4:3 aspect ratio.
- **Screen Fit**
  The top and bottom of the screen are cut off and the full screen appears. The picture will look vertically stretched.
- **Zoom Fit**
  The top, bottom, left and right of the screen are cut off and the central portion of the screen is enlarged.

NOTE

- This function may behave differently depending on the type of disc.

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Slow Repeat play

This feature allows you slowly repeat scenes containing sports, dancing, musical instruments being played etc. so you can study them more closely.

When playing a DVD

1 During play, press the PLAY/PAUSE (▶/II) button.

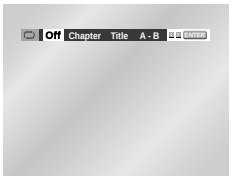
2 Press the ▶▶ button to choose the play speed between 1/8X, 1/4X, and 1/2X of normal.

3 Press the REPEAT button on the remote. Repeat screen appears.

4 Select Chapter, Title or A-B using the LEFT/RIGHT buttons.

* REPEAT A-B
- Press the REPEAT button. Select A-B on screen with the LEFT/RIGHT buttons on the remote.
- Press ENTER at the point where you want the repeat play to start (A). The B is automatically highlighted.
- Press ENTER at the point where you want the repeat play to stop (B).
- To terminate the function, press the 'CLEAR' button or the 'REPEAT' button again.
- A-B REPEAT does not allow you to set point (B) until at least 5 seconds has elapsed after point (A) has been set.

DVD



VCD/CD

5 Press ENTER.

6 To return to normal play, press REPEAT again, then press the LEFT/RIGHT buttons to select Off. Press ENTER, then press the PLAY/PAUSE button.

NOTE

- The disc will play from A to B repeatedly at the speed you chose.
- To terminate the function, press the 'CLEAR' button or the 'REPEAT' button again.

Selecting the Audio Language

You can select a desired language quickly and easily with the AUDIO button.

Using the AUDIO button

1 Press the AUDIO button.

2 Use the LEFT/RIGHT buttons to select the desired language on a DVD.

- The audio languages are represented by abbreviations.

3 Use the LEFT/RIGHT buttons to select Stereo, LEFT or RIGHT. (On VCD/CD)

DVD

VCD/CD

NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 8 audio languages.
- **How to have the same audio language come up whenever you play a DVD;**
  Refer to “Setting Up the Language Features” on page 38.

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Selecting the Subtitle Language

You can select a desired subtitle quickly and easily with the SUBTITLE button.

Using the SUBTITLE button

1 Press the SUBTITLE button.

2 Use the LEFT/RIGHT buttons to select the desired subtitle language.

3 Use the UP/DOWN buttons to determine whether or not the subtitle will be displayed.

- Initially, the subtitling will not appear on screen.
- The subtitle languages are represented by abbreviations.

NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 32 subtitle languages.
- **How to have the same subtitle language come up whenever you play a DVD;**
  Refer to “Setting Up the Language Features” on page 38.

Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.

Using the ANGLE button

Press the ANGLE button to see if an ANGLE ( ) mark is present at the upper left hand corner of the screen.

1 When an ANGLE mark is shown, press the ANGLE button, then an ANGLE select icon will appear at the upper left hand corner of the screen.

2 Use the LEFT/RIGHT buttons to select the desired screen angle.

3 To turn off the display, press the ANGLE button again.

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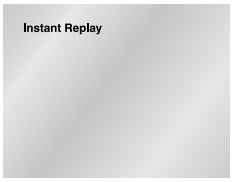
Using the Instant Replay/Skip Function

Using the Instant Replay function (DVD)

If you miss a scene, you can see it again using this function.

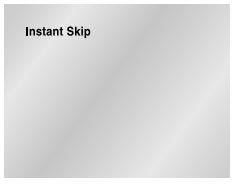


1 If you press the I.REPLAY button, the current scene moves backward about 10 seconds, and plays back.

* Depending on the disc, the Instant Replay function may not work.

Using the Instant Skip function (DVD)

Use this function to skip playback 10 seconds ahead of the current scene.



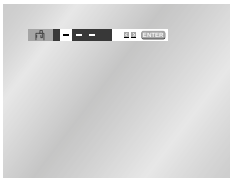
1 Press the I.SKIP button.

- Playback will skip ahead 10 seconds.
- Depending on the disc, this function may not work.

Using the Bookmark Function

This feature lets you bookmark sections of a DVD or VCD (MENU OFF mode) so you can quickly find them at a later time.

Using the Bookmark Function (DVD/VCD)



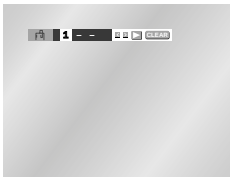
1 During play, press the BOOKMARK button on the remote. The Bookmark icons will be displayed.

2 Use the LEFT/RIGHT buttons to move to the desired bookmark icon.

3 When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).

4 Press the BOOKMARK button to turn off the display.

Recalling a Marked Scene



1 During play, press the BOOKMARK button on the remote.

2 Use the LEFT/RIGHT buttons to select a marked scene.

3 Press the PLAY/PAUSE (▶/II) buttons to skip to the marked scene.

Clearing a Bookmark

1 During play, press the BOOKMARK button on the remote.

2 Use the LEFT/RIGHT buttons to select the bookmark number you want to delete.

3 Press the CLEAR button to delete a bookmark number. Press the BOOKMARK button to turn off the display.

NOTE

- Up to three scenes may be marked at a time.
- When in VCD 2.0 mode (MENU ON mode), this function does not work.
- Depending on the disc, the Bookmark function may not work.

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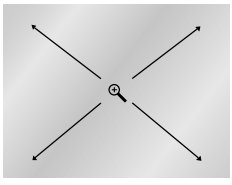
Using the Zoom & 3D Sound Functions

Using the Zoom Function (DVD)



1 During play or pause mode, press the ZOOM button on the remote.
A zoom mark will be displayed on screen.

2 Use the UP/DOWN or LEFT/RIGHT buttons to select the part of the screen you want to zoom in on.

3 Press the ENTER button.
- During DVD play, press ENTER to zoom in 2X/4X/2X/Normal in order.
- During VCD play, press ENTER to zoom in 2X/Normal in order.

Using the 3D Sound Function

The simulated surround effect depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect.
This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs.
(Discs which are recorded with LPCM or DTS will not work.)

1 During play, press the 3D button.
The 3D SOUND mark will be displayed on screen.

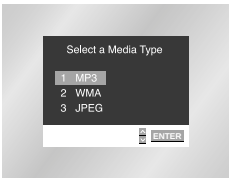
2 Press the UP/DOWN buttons to turn the 3D Sound feature On or Off.

NOTE

- 3D Sound is possible only on discs recorded using DOLBY SURROUND or DOLBY DIGITAL. However, some of these discs do not contain rear channel sound signals.
- Depending on the disc, the Zoom and 3D Sound functions may not work.

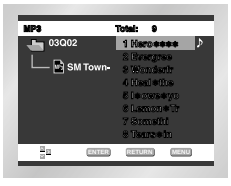
MP3/WMA Play

When an MP3/WMA Disc is inserted into the DVD player, the first song file of the first folder plays.



- If more than two file extensions are present, select the media of your choice by pressing UP/DOWN, then press the ENTER button.
- To change the currently playing media, press the STOP (■) button twice and then press the DISC MENU button.
- If no button on the remote controller is pressed for 60 seconds, the menu will disappear and the selected item will be played.

MP3/WMA Play Function



1 When the first song file is playing, the music folder menu will appear on the right side of the screen.
Up to 8 music folders can be displayed at a time. If you have more than 8 folders on a disc, press the LEFT/RIGHT buttons to bring them up on the screen.

2 Use the UP/DOWN buttons to select the desired music folder, then press ENTER.
Use the UP/DOWN buttons again to select a song file. Press ENTER to begin playback of the song file.

Program/Random playback

Press the MODE button to switch between the RANDOM and PROGRAM modes. See page 32 for more information on these modes.

NOTE

- Press the REPEAT button to hear only music continuously and press it once again to release.
- PROGRAM/RANDOM playback cannot be used if the disc contains more than two types of file extensions.

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MP3/WMA Play

CD-R MP3/WMA discs

When playing CD-R/MP3 or WMA discs, please follow all the recommendations for CD-R above, plus the comments below:

- **Your MP3 or WMA files should be ISO 9660 or JOLIET format.**
  ISO 9660 format and Joliet MP3 or WMA files are compatible with Microsoft's DOS and Windows, and with Apple's Mac. These two formats are the most widely used.
- **When naming your MP3 or WMA files do not exceed 8 characters, and place ".mp3, .wma" as the file extension.**
  General name format of: Title.mp3. or Title.wma. When composing your title, make sure that you use 8 characters or less, have no spaces in the name, and avoid the use of special characters including: (.,/,\,=,+).
- **Use a decompression transfer rate of at least 128 Kbps when recording MP3 files.**
  Sound quality with MP3 files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to MP3 format, of at least 128 Kbps and up to 160 Kbps. However, choosing higher rates, like 192 Kbps or more, only rarely give better sound quality.
  Conversely, files with decompression rates below 128 Kbps will not be played properly.
- **Use a decompression transfer rate of at least 64Kbps when recording WMA files.**
  Sound quality with WMA files basically depends on the rate of compression/decompression you choose. Getting audio CD quality sound requires an analog/digital sampling rate, that is conversion to WMA format, of at least 64Kbps and up to 192Kbps.
  Conversely, files with decompression rates below 64Kbps or over 192Kbps will not be played properly.
- **Do not try recording copyright protected MP3 files.**
  Certain "securized" files are encrypted and code protected to prevent illegal copying. These files are of the following types: Windows Media™ (registered trade mark of Microsoft Inc) and SDMI™ (registered trade mark of The SDMI Foundation). You cannot copy such files.
- **Important:** The above recommendations cannot be taken as a guarantee that the DVD player will play MP3 recordings, or as an assurance of sound quality.
  You should note that certain technologies and methods for MP3 file recording on CD-Rs prevent optimal playback of these files on your DVD player (degraded sound quality and in some cases, inability of the player to read the files).
- This unit can play a maximum of 500 files and 300 folders per disc.

Program Play & Random Play

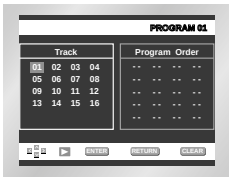
Program Play (CD/MP3/WMA)

1 Press the MODE button.

2 Use the LEFT/RIGHT buttons to select PROGRAM. Press the ENTER button. All discs in the unit will be read first.

3 Use the LEFT/RIGHT/UP/DOWN buttons to select the first track to add to the program. Press the ENTER button. The selection numbers appear in the Program Order box.

4 Press the PLAY/PAUSE (▶/II) button. The disc will be played in programmed order.
- Use the DISC SKIP key to program another disc.



Random Play (CD/MP3/WMA)

1 Press the MODE button.

2 Use the LEFT/RIGHT buttons to select RANDOM. Press the ENTER button.

3 Press LEFT/RIGHT buttons to select all discs or disc. The disc(s) will be played in random order.

NOTE

- Depending on the disc, the Program and Random Play functions may not work.
- To resume normal play, press the CLEAR button.
- PROGRAM/RANDOM playback cannot be used if the disc contains more than two types of file extensions.
- This unit can support a maximum of 99 programmed orders.
- Random play can only operate when the discs are the same type.

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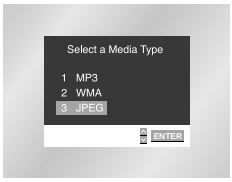
Picture CD Playback

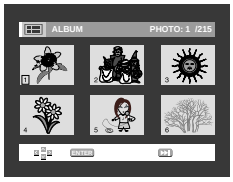
1 Open the disc tray.

2 Load the disc on the tray.
- Load the disc with the labeled side up.

3 Close the tray.
- The tray closes and you should get a screen that looks like the one to the right.



• Select JPEG in the menu to view a Photo CD.
• Use the UP/DOWN or LEFT/RIGHT buttons on the remote controller to select the picture you want to view and then press the ENTER button. (Press the PLAY/PAUSE (▶/II) button if you want to play it in the Slide Show mode.)



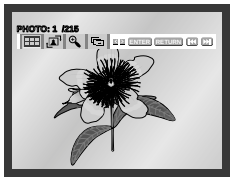
• To see the next 6 pictures, press the ▶▶| button.

• To see the previous 6 pictures, press the |◀◀ button.

• : Return to the Album Screen.
Press the UP/DOWN or LEFT/RIGHT buttons on the remote controller to display the menu again.

• : Each time the ENTER button is pressed, the picture rotates 90 degrees clockwise.

• : Each time the ENTER button is pressed, the picture is enlarged up to 2X. (Normal → 2X → Normal)



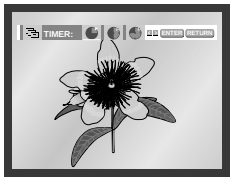
• : The unit enters slide show mode.

*Press the RETURN button to return to the album screen.
*Before the Slide Show can begin, the picture interval must be set.

• : When this icon is selected and ENTER is pressed, the pictures change automatically with about an 6 second interval.

• : The pictures change automatically with about an 12 second interval.

• : The pictures change automatically with about an 18 second interval.



*Depending on the file size, each interval between images may take longer or shorter than the manual suggests.

• To change the currently playing media, press the STOP (■) button twice and then press the DISC MENU button.
• If no button on the remote controller is pressed for 60 seconds, the menu will disappear and the selected item will be played.

NOTE

• Press the TITLE MENU button to return to the album screen.
• Press the RETURN button to return to the slide show.
• If no buttons on the remote controller pressed for 10 seconds, the menu will disappear. Press the UP/DOWN or LEFT/RIGHT buttons on the remote controller to display the menu again.

CD-R JPEG Discs

• Only files with the ".jpg" and ".JPG" extensions can be played.
• If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
• Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
• The name of the JPEG file may not be longer than 8 characters and should contain no blank spaces or special characters (. / = +).
• Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
• A maximum of 500 images can be stored on a single CD.
• Only Kodak Picture CDs can be played.
• When playing a Kodak Picture CD, only the JPEG files in the pictures folder can be played.
• Picture discs other than Kodak Picture CD may take longer to start playing or may not play at all.
• If a number of files in 1 Disc is over 500, only 500 JPEG file can be played.
• If a number of folders in 1 Disc is over 300, only JPEG files in 300 folders can be played.

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Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

1 With the unit in Stop mode, press the MENU button on the remote. Select **Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

❶ **Language Setup :** Setup of the Language.

❷ **Audio Setup :** Setup of the Audio Options

❸ **Display Setup :** Setup of the Display Options
Use to select which type of screen you want to watch and several display options.

❹ **Parental Setup :** Setup of the Parental Level
Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.

2 Use the UP/DOWN buttons on the remote to access the different features.

3 Press the ENTER button to access the sub features.

To make the setup screen disappear after setting up, press the MENU button again.

NOTE

Depending on the disc, some Setup Menu selections may not work.

Setting Up the Language Features

If you set the player menu, disc menu, audio and subtitle language in advance, they will come up automatically every time you watch a movie.

Using the Player Menu Language

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

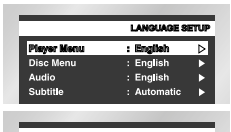
3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Player Menu** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Use the UP/DOWN buttons to select '**English**'.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.
- To make the SETUP menu disappear, press the RETURN or LEFT button.

e.g) Setting up in English.



Using the Disc Menu Language

This function changes the text language only on the disc menu screens.

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Disc Menu** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Use the UP/DOWN buttons to select '**English**'.
- Select "Others" if the language you want is not listed.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.

e.g) Setting up in English.

ADVANCED FUNCTIONS

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Setting Up the Language Features

Using the Audio Language

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Audio** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Press the UP/DOWN buttons to select '**English**'.
- Select "Original" if you want the default soundtrack language to be the original language the disc is recorded in.
- Select "Others" if the language you want is not listed.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.

Using the Subtitle Language

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Language Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Select **Subtitle** using UP/DOWN buttons, then press the RIGHT or ENTER button.

5 Use the UP/DOWN buttons to select '**English**'.
- Select "Automatic" if you want the subtitle language to be the same as the language selected as the audio preference.
- Select "Others" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.

6 Press the ENTER button.
- English is selected and the screen returns to SETUP menu.

NOTE

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- **How to make the SETUP menu disappear or return to menu screen during set up;** Press RETURN or LEFT button.

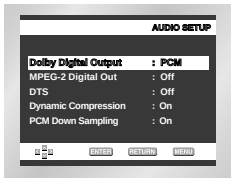
Setting Up the Audio Options

1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Audio Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Use the UP/DOWN buttons to select the desired item. Then press the RIGHT or ENTER button.



❶ Dolby Digital Output
- **1. PCM** : Converts to PCM(2CH) 48kHz audio Select PCM when using the Analog Audio Outputs.
- **2. Bitstream** : Converts to Dolby Digital Bitstream (5.1CH). Select Bitstream when using the Digital Audio Output.

NOTE Be sure to select the correct Digital Output or no audio will be heard.

❷ MPEG-2 Digital Out
- **1. PCM** :
  Converts to PCM(2CH) audio. Select PCM when using the Analog Audio Outputs.
- **2. Bitstream** :
  Converts to MPEG-2 Digital Bitstream (5.1CH or 7.1CH).
  Select Bitstream when using the Digital Audio Output.

❸ DTS
- **1**. Off : Doesn't output digital signal.
- **2**. On : Outputs DTS Bitstream via digital output only. Select DTS when connecting to a DTS Decoder.

❹ Dynamic Compression
- **1**. On : To select dynamic compression.
- **2**. Off : To select the standard range.

❺ PCM Down Sampling
- **1**. On : Select this when the amplifier connected to the player is not 96KHz compatible. In this case, the 96KHz signals will be down converted to 48KHZ.
- **2**. Off : Select this when the amplifier connected to the player is 96KHz compatible. In this case, all signals will be output without any changes.

NOTE

- **How to make the SETUP menu disappear or return to menu screen during set up;** Press RETURN or LEFT button.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

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Setting Up the Display Options

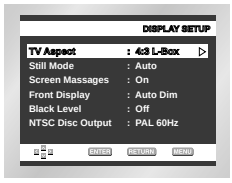
1 With the unit in Stop mode, press the MENU button.

2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Display Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Use the UP/DOWN buttons to select the desired item. Then press the RIGHT or ENTER button.

- ❶ **TV Aspect**
- ❷ **Still Mode**
- ❸ **Screen Messages**
- ❹ **Front Display**
- ❺ **Black Level**
- ❻ **NTSC Disc Output**



NOTE

• **How to make the SETUP menu disappear or return to menu screen during set up;**
Press the RETURN or LEFT button.

Setting Up the Display Options

❶ TV Aspect
Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).
1. 4:3 Letter Box :
Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen.
Black bars will appear at the top and bottom of the screen.
2. 4:3 Pan Scan :
Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
3. 16:9 Wide :
You can view the full 16:9 picture on your widescreen TV.

❷ Still Mode
These options will help prevent picture shake in still mode and display small text clearer.
1. Auto : When selecting Auto, Field/Frame mode will be automatically converted.
2. Field : Select this feature when the screen shakes in the Auto mode.
3. Frame : Select this feature when you want to see small letters more clearly in the Auto mode.

❸ Screen Messages
Use to turn on-screen messages On or Off.

❹ Front Display
Adjust the brightness of the unit's front panel display.
1. Auto Dim : Makes the Front Panel Display dim automatically when playing a DVD.
2. Bright : Makes the Front Panel Display bright.
3. Dim : Makes the Front Panel Display dim.

❺ Black Level
Adjusts the brightness of the screen.(On/Off)

❻ NTSC Disc Output
"NTSC" if the screen only has one NTSC-video entrance.
If this is not the case, you can choose to leave " PAL 60Hz" as is.

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Setting Up the Parental Control

The Parental Control function works in conjunction with DVDs that have been assigned a rating - which helps you control the types of DVDs that your family watches. There are up to 8 rating levels on a disc.

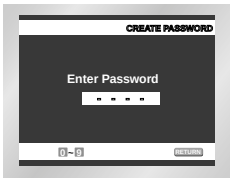
1 With the unit in Stop mode, press the MENU button.

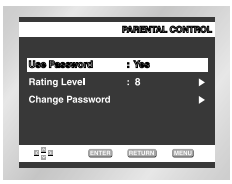
2 Select **Setup** using UP/DOWN buttons, then RIGHT or ENTER button.

3 Select **Parental Setup** using UP/DOWN buttons, then press the RIGHT or ENTER button.

4 Use RIGHT or ENTER to select **Yes** if you want to use a password. The **Enter Password** screen appears.

5 Enter your password. The **Re-enter Password** screen appears to confirm the password.
Enter your password again.
The Parental Control screen appears.

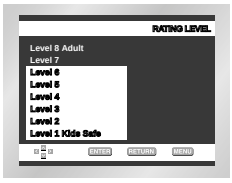




About the Rating Level ;
The Rating Level will work only when Use Password is set to Yes. To unlock the player, use UP/DOWN to select No. Use RIGHT or ENTER to select Rating level. Press ENTER.
- Use UP/DOWN to select the level(e.g. Level 6) and press ENTER. Discs that contain Level 7 will now not play.
- To cancel the rating level, use RIGHT or ENTER to select No in Use Password.

About the Change Password ;
- Use UP/DOWN to select Change Password. Press ENTER. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.

e.g) Setting up in LEVEL6.



NOTE

- **How to make the SETUP menu disappear or return to menu screen during set up;**
  Press RETURN or LEFT button.
- If you have forgotten your password, see Forget Password in the Troubleshooting Guide.

Troubleshooting

Before requesting service (troubleshooting), please check the following.

Problem	Action	Page
No operations can be performed with remote.	• Check the batteries in the remote. May need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again.	P4
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD.	P7
5.1 channel sound is not being reproduced.	• 5.1 channel sound is reproduced only when the following conditions are met. : 1) The DVD player is connected with the proper amplifier 2) The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. • Check if your audio system is connected and working properly. • In a SETUP Menu, is the Audio Output set to Bitstream?	P12 P39
The ⊘ icon appears on screen.	• The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	P15
Disc Menu doesn't appear.	• Check if the disc has a Menu.	P36~37
Play mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P37~42
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your DVDs.	P40~41
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P39
Forgot password	• Press power on from a cold start with no disc in the unit. Press the STOP (■) and PLAY (▶/II) buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the desired language button. Press the MENU button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Create Password display will appear. You can now set your rating level and change your password to a new number.	P42
If you experience other problems.	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest authorized service center.	

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Specifications

General	Power Requirements	AC 110-240V, 50/60 Hz
	Power Consumption	12 W
	Weight	4.3 Kg
	Dimensions	430mm (W) X 400mm (D) X 68.5mm (H)
	Operating Temperature Range	+5°C to +35°C
	Operating Humidity Range	10 % to 75 %
Disc	DVD (DIGITAL VERSATILE DISC)	Reading Speed : 3.49 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
	CD : 12Cm (COMPACT DISC)	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min.
	CD : 8Cm (COMPACT DISC)	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 20 min.
	VCD : 12Cm	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min. (Video + Audio)
Video Output	Composite Video	1 channel : 1.0 Vp-p (75 Ω load)
	Component Video	Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load)
	S-VIDEO	Luminance Signal : 1.0 Vp-p (75 Ω load) Chrominance Signal : 0.286 Vp-p (75 Ω load)
Audio Output	2 channel	L(1/L), R(2/R)
	*Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
	*S/N Ratio	110 dB
	*Dynamic Range	100 dB
	*Total Harmonic Distortion	0.004 %

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

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